

Fig. 1

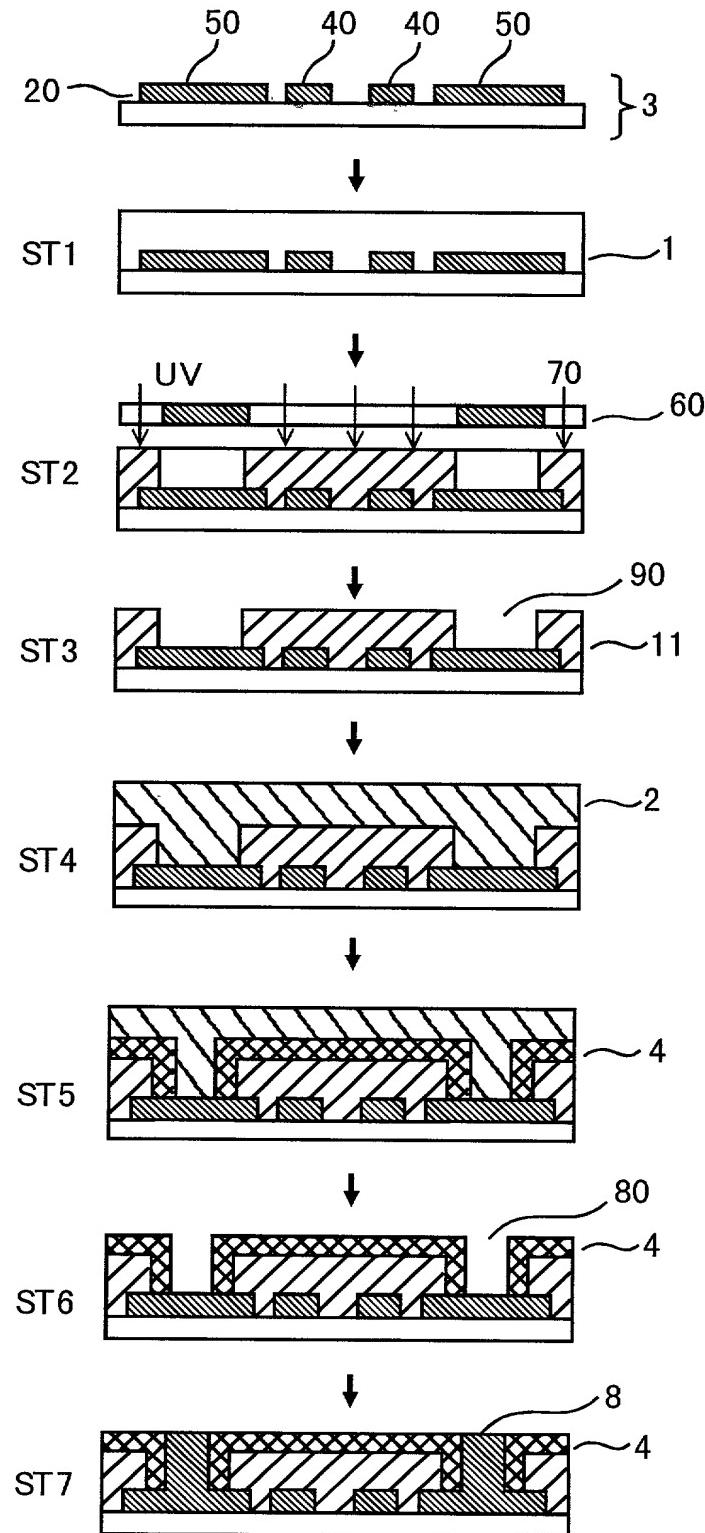


Fig.2

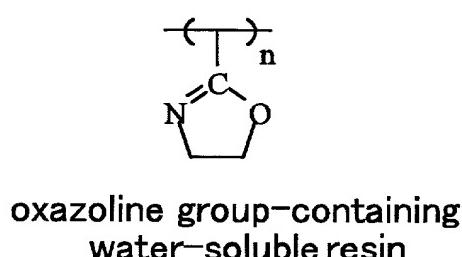
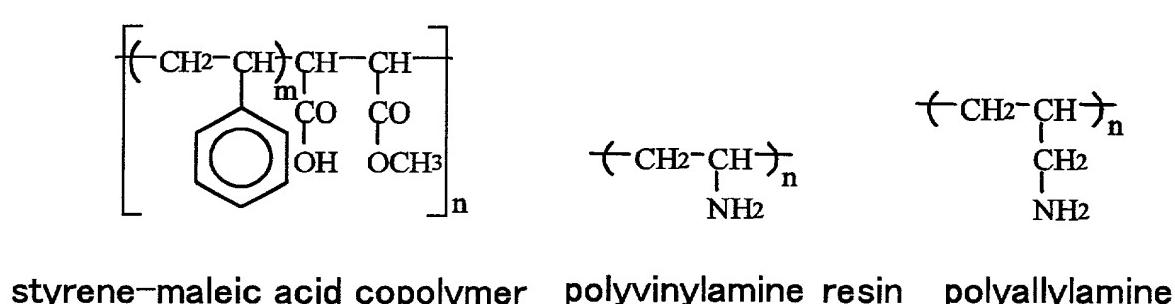
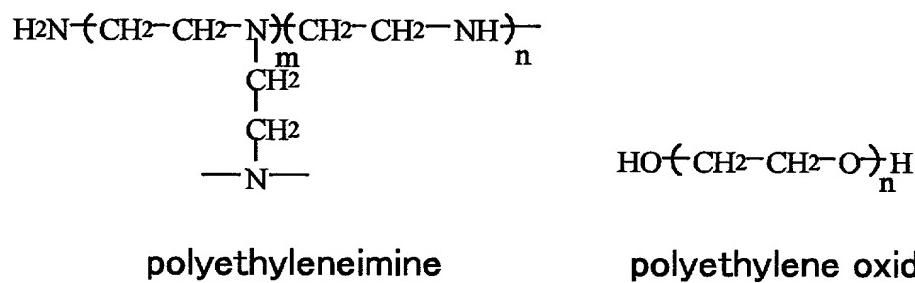
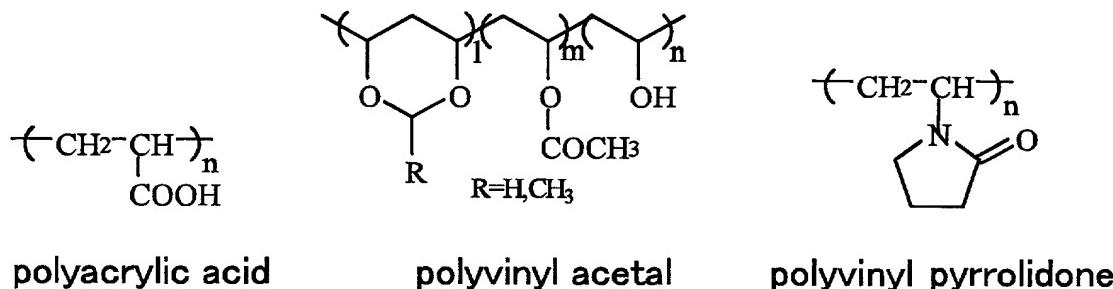
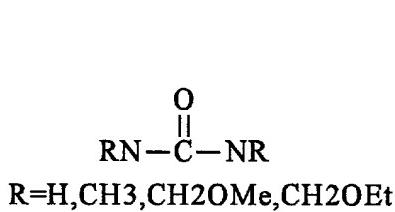
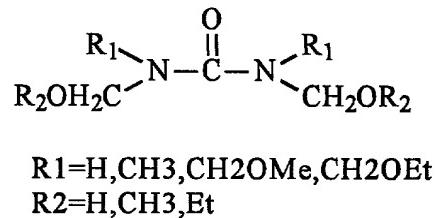
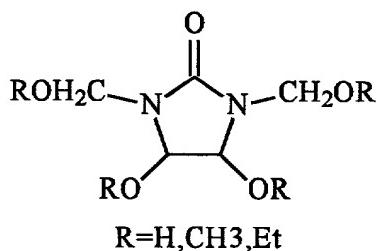


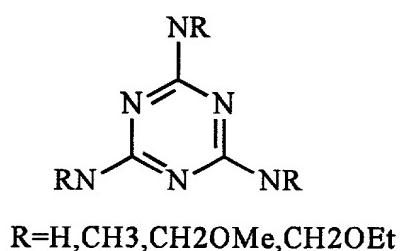
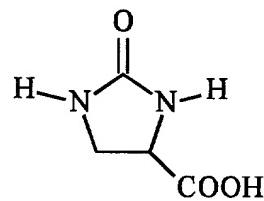
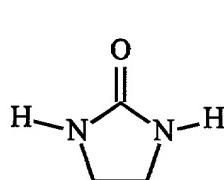
Fig.3



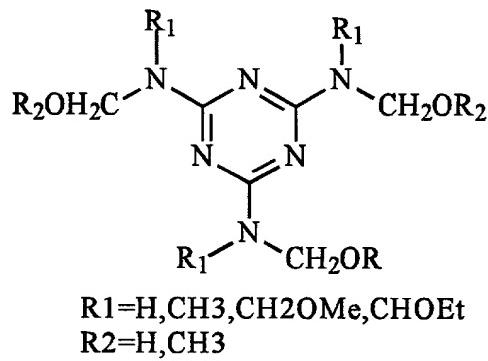
## ureaderivatives



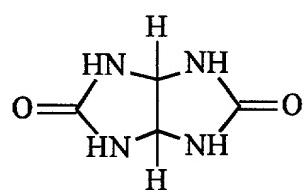
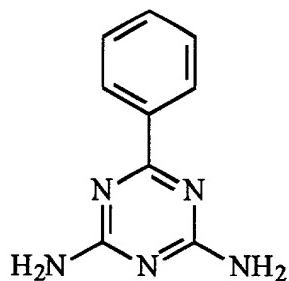
### alkoxymethylurea



## **melamine derivatives**



# **alkoxymethylmelamine derivatives**



### **benzoguanamine**

## glycoluril

Fig.4

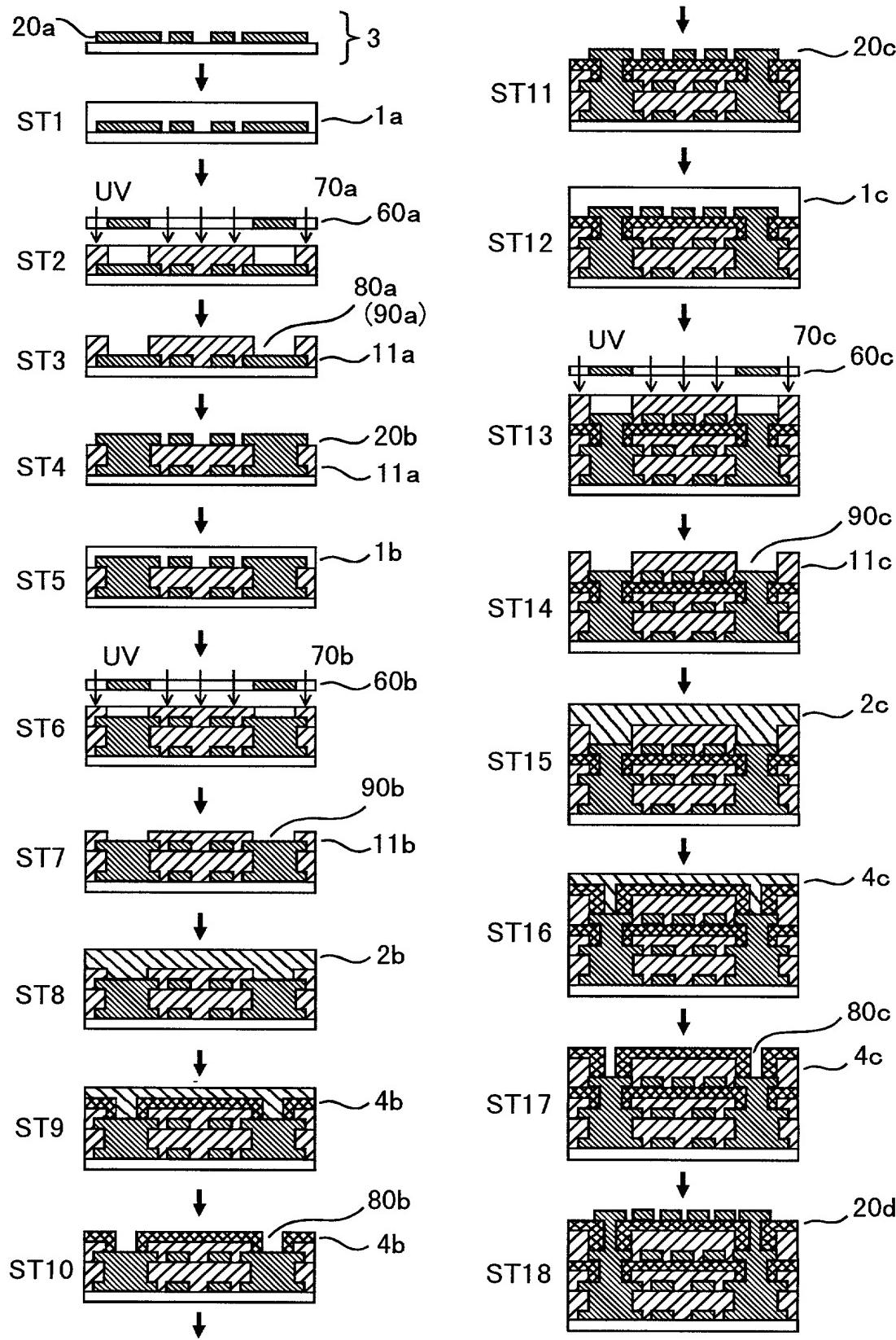


Fig.5

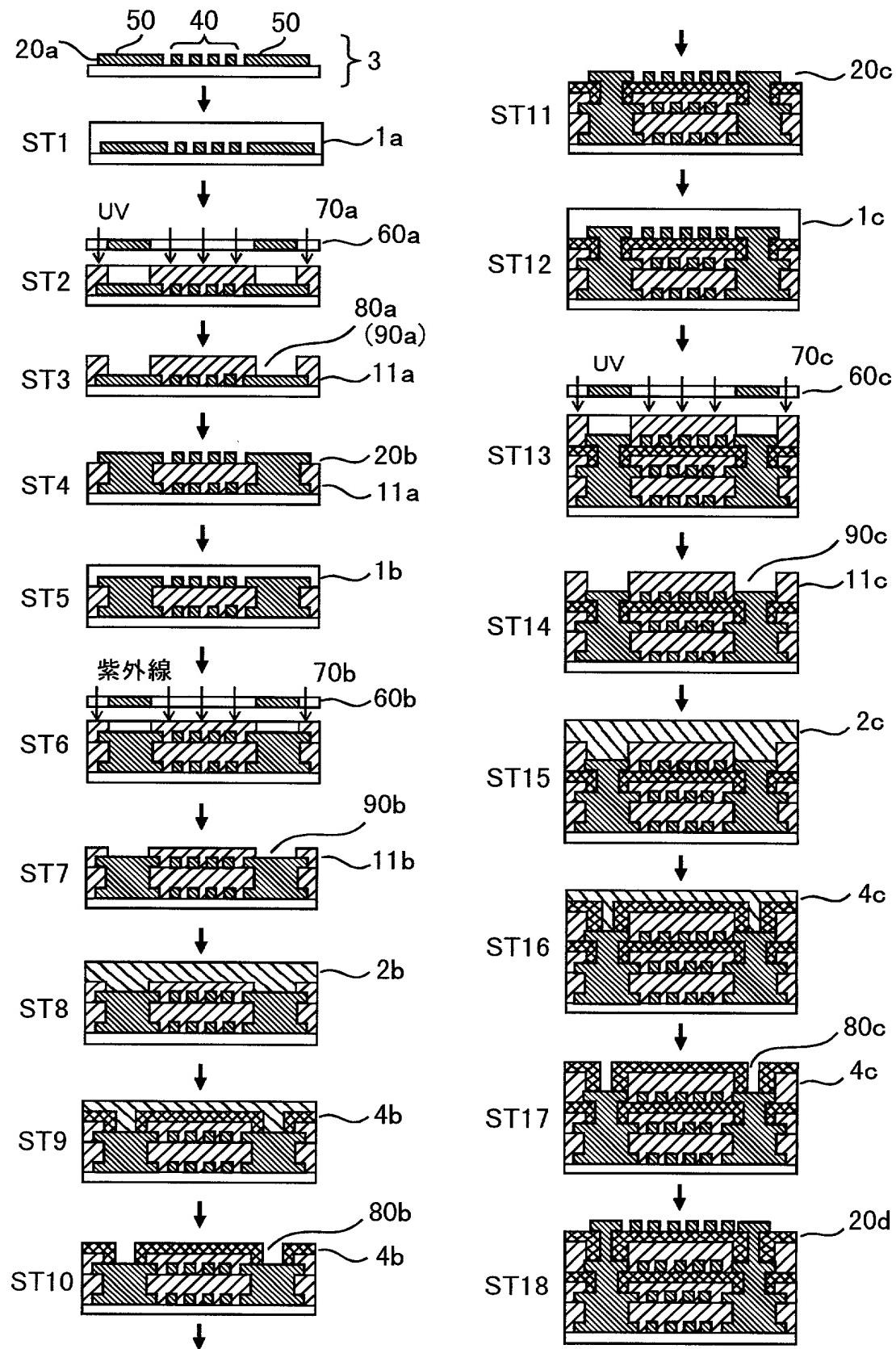


Fig.6

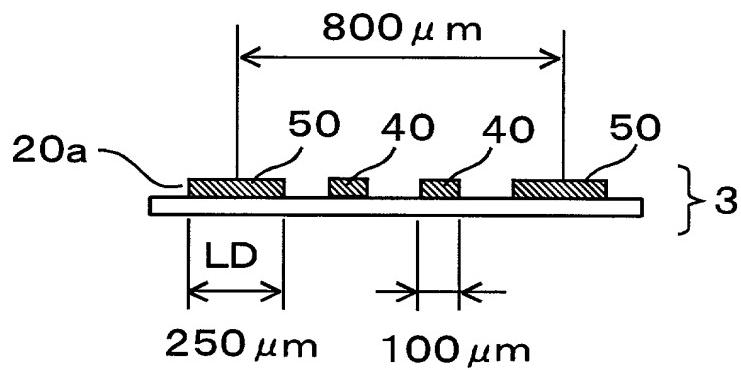
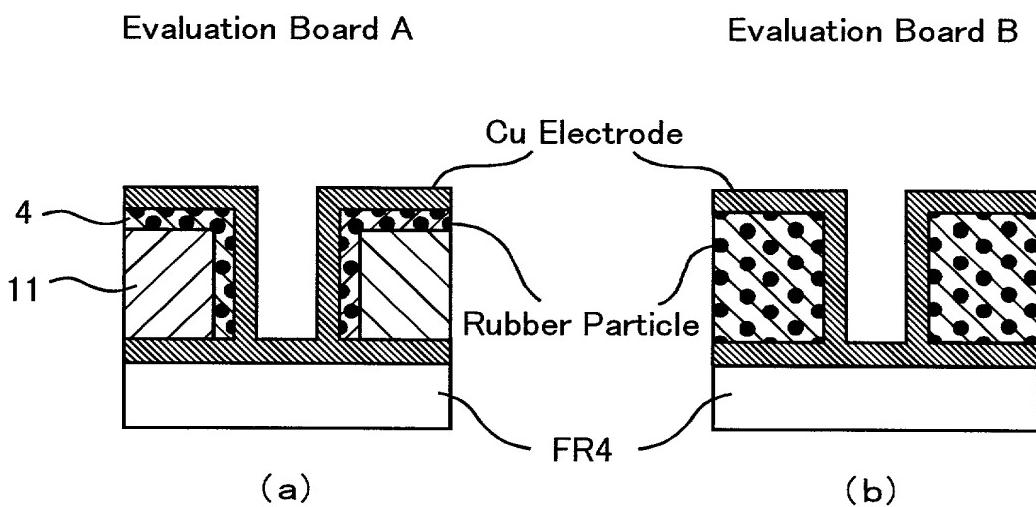


Fig.7



## Fig.8 PRIOR ART

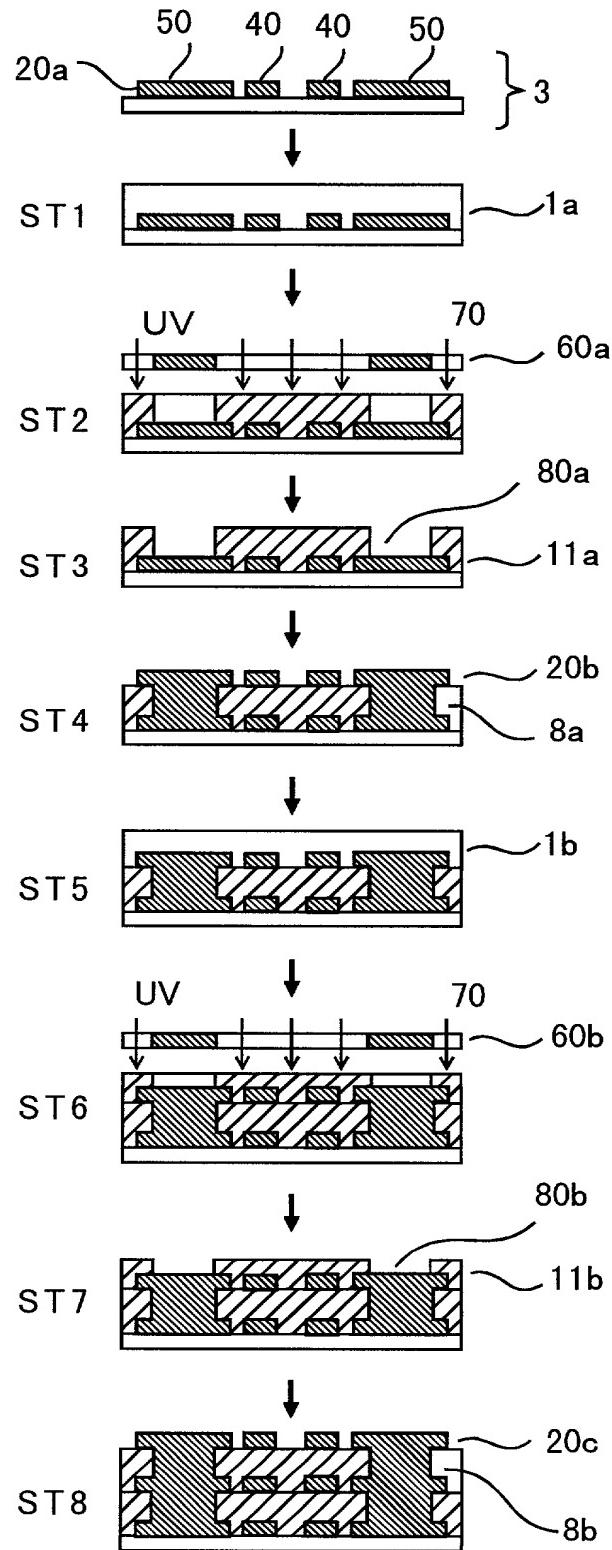


Table 1

Condition	Diameter of Via-Hole
Non Heat Treatment	150 $\mu\text{m}$
120°C/60min	130 $\mu\text{m}$
130°C/30min	100 $\mu\text{m}$
140°C/30min	70 $\mu\text{m}$

Table 2

Condition	Diameter of Via-Hole
Non Heat Treatment	150 $\mu\text{m}$
110°C/10min	120 $\mu\text{m}$
110°C/20min	100 $\mu\text{m}$
110°C/30min	80 $\mu\text{m}$
135°C/40min	40 $\mu\text{m}$

Table 3

Condition	Diameter of Via-Hole
Non Heat Treatment	150 $\mu\text{m}$
110°C/15min	120 $\mu\text{m}$
120°C/15min	100 $\mu\text{m}$
130°C/15min	80 $\mu\text{m}$
135°C/20min	45 $\mu\text{m}$

Table 4

Condition	Diameter of Via-Hole
Non Heat Treatment	100 $\mu\text{m}$
120°C/30min	96 $\mu\text{m}$
130°C/30min	90 $\mu\text{m}$
140°C/30min	83 $\mu\text{m}$

Table 5

Sample	Dielectric Constant [ 1kHz ] [ 25°C ]	Thermal Expansion [ Vertical ] [ 80~120°C ]	Peel Strength [ 90° Peel ] [ 25°C ]
Evaluation Board A	4.5	40ppm	980kg/cm
Evaluation Board B	4.8	55ppm	970kg/cm